

WPANT30098-S1A

5 dBi WLAN Surface-mount Antenna



Note: Prototype shown.

Description / Application

This is a high Gain, 5dBi Omni - directional surface mount patch antenna. Excellent Gain, Radiation pattern with Hemispherical Coverage and compact size make this an ideal choice antenna for applications where High Gain is needed either on metallic or non-metallic surfaces. This antenna is rated for outdoor use as well. The antenna has a 3M double-stick tape on the back for easy installation.

We can assist your engineers to optimize mounting positions for these antennas in your specific application and can further assist to trouble shoot system integration issues such as TRP/TIS and FCC requirements. We specialize in developing customized Antenna solutions. Please contact sales@worldproducts.com with your specific application requirements.

Electrical Properties

Operating Frequency	5.7 – 5.9 GHz
Approximate Antenna Impedance [Ω]	50Ω
VSWR – Typical	< 2:1
Peak Gain [dBi] (Typical)	4 to 5 dBi (Gain goes down with longer cable lengths)
Efficiency [%] (Typical)	55 – 70 %
Polarization	Linear
Pattern	Directional (Patch style)

Mechanical / Environmental Properties

Antenna Dimensions	1.7" X 1.7" X 0.6"
Antenna Color	Black
Cable	9.5" long RG174
Connector	SMA Male
Tape	50 mils thick 3M double-stick tape
Operating / Storage Temperature	-40°C to +90°C
Environmental	Meets standards for UL 94V-0
Hazardous Materials	RoHS Compliant

Note: The dimensions mentioned here are for the prototype. These can be optimized for final production antennas.

Pictures of the Antenna



Note: Shown here is a prototype; the actual antenna will have a silkscreen.

3D Radiation Pattern of the Antenna

